

 ICSOBA The Aluminium Industry Forum				44 th Conference and Exhibition Bengaluru, India 15 - 20 November 2026				Program at a Glance (1 September 2026)												
	Time	November 15, Sunday	Day 1 November 16, Monday				Day 2 November 17, Tuesday				Day 3 November 18, Wednesday				Day 4 November 19, Thursday				Day 5 November 20, Friday	
			Room 1	Room 2	Room 3	Room 4	Room 1	Room 2	Room 3	Room 4	Room 1	Room 2	Room 3	Room 4	Room 1	Room 2	Room 3	Room 4		
Start	8:30		9:00 - 9:50 Conference Opening Host Sponsor Welcome				Bauxite Session 3	Casthouse Operation Session 1	Alumina Session 3	Aluminium Electrolysis Session 3	Bauxite Residue Session 3	Electrodes Session 4	Alumina Session 6	Aluminium Electrolysis Session 6	Alumina Session 11	Aluminium Electrolysis Session 9	Alumina Session 12	Aluminium Electrolysis Session 10	Technical Field Trips: -Belgavi Alumina Refinery; - Aditya Aluminium Smelter (please see your field trip specific itinerary at ICSoba website)	
End	10:10		9:50 - 10:20 Participant Group Photo																	
Networking Break	10:10		10:20 - 10:50 30 minutes break																	
	10:40																			
Start	10:40		10:50 - 12:20 Keynotes Session A (3 presentations and panel)				Bauxite Residue Session 1	Casthouse Operation Session 2	Alumina Session 4	Aluminium Electrolysis Session 4	Alumina Session 7	Electrodes Session 5	Alumina Session 8	Aluminium Electrolysis Session 7	Alumina Session 13		Alumina Session 14	Aluminium Electrolysis Session 11		
End	12:20																			
Lunch Break	12:20	IAI's Bauxite & Alumina Committee Meeting - by invitation only (12:00 - 18:00)																		
	13:20																			
Start	13:20		Bauxite Session 1	Electrodes Session 1	Alumina Session 1	Aluminium Electrolysis Session 1	Bauxite Residue Session 2	Electrodes Session 3	Alumina Session 5	Aluminium Electrolysis Session 5	Alumina Session 9	Casthouse Operation Session 3	Alumina Session 10	Aluminium Electrolysis Session 8	Alumina Session 15		Alumina Session 16	Aluminium Electrolysis Session 12		
End	15:00																			
Networking Break	15:00																			
	15:30																			
Start	15:30		Bauxite Session 2	Electrodes Session 2	Alumina Session 2	Aluminium Electrolysis Session 2	15:30 - 17:00 Keynotes Session B (3 presentations and panel)				15:30 - 16:00 Best Papers Award Ceremony 16:00 - 17:30 Keynotes Session C (3 presentations and panel)				15:30 - 17:00 Special Panel Discussion (TBA)					
End	17:10																			
Break	17:10																			
	17:30																			
Start	17:30						Annual General Meeting								Women in Aluminium					
End	18:30																			
		19:30 - 22:00 Welcome Cocktail	19:30 - 22:30 Gala Dinner (registered participants only)				19:30 - 22:30 Byg Brewski Brewing Company (registered participants only)				20:00 - 22:30 Rico Wine Park & Vineyards (registered participants only)				No Event					

A provisional list of papers is displayed on the following pages.

In alphabetical order by presenter, except for keynotes, which are listed in order of presentation.

Presenter	Presentation Title	Organization(s)
KEYNOTES		
Satish Pai	Aluminium Industry at the Crossroads: Growth, Sustainability, and Innovation	Hindalco Industries, India
Jonathan Grant	Navigating Geopolitical Turmoil While Staying the Course on Sustainability	International Aluminium Institute (IAI), United Kingdom
Jerome Lucaes	Decarbonisation of the Aluminium Industry - Status of Progress in 2026	Fast Forward Zero, Switzerland
Brijendra Pratap Singh	Growth and Opportunities of Aluminium Industry—Indian Perspective	National Aluminium Company, India
Alan George Clark	Recent Technical and Market Developments in the Global Bauxite Mining and Alumina Refining Sector	The CM Group, Australia
Vaishali Surawar	Operation of UTKAL Refinery – Best Practices and Utilization of Bauxite Residue at Hindalco	Hindalco Industries, India
Vibhav Upadhyay	Green Transformation Roadmap for Vedanta Aluminium Metal Limited	Vedanta Aluminium Metal, India
Uday Patel	Aluminium Market Outlook - A New Age of Disruption	Wood Mackenzie, United Kingdom
Alex Lowery	Preventing Unplanned Production Stoppages Due to Safety Hazards and Accidents	Wise Chem, United States of America
BAUXITE		
Anastasia Pilichou	Methodological Considerations for the Determination of Gallium in Bauxite by ICP-OES	National Technical University of Athens, Greece
Antônio Nascimento	Experimental Assessment of High Silica Bauxite Performance Under Low-Temperature Bayer Conditions	1: Mineração Rio do Norte, Brazil; 2: VS Consultoria em Processos Industriais, Brazil
Fabricio de Lima	Application of Predictive Analytics in Used Oil Filters - Reduction of Class I Waste and Emissions Mitigation in Mining	Hydro Paragominas, Brazil
Feiyu Zhang	Research Progress on the Occurrence and Extraction Technology of Lithium in Bauxite	Zhengzhou Non-ferrous Metals Research Institute of CHALCO, Zhengzhou, China
Felipe Antonialli	Textural, Physicochemical and Mineralogical Integration Applied to the Geometallurgy of Porto Trombetas Bauxites	1: Mineração Rio do Norte, Brazil; 2: Universidade de São Paulo, Brazil
Felipe Antonialli	Applications of Bauxite Textural Classification in Geometallurgical Modeling and Process Optimization	1: Mineração Rio do Norte, Brazil; 2: Universidade de São Paulo, Brazil;
Fernanda Ferreira	Fuel Dilution Diagnostics by FTIR and Associated Wear Mechanisms in Mining Diesel Engines	Hydro Paragominas, Brazil
Luiz Carlos Brito	Alternative Beneficiation Route of Monte Branco Low-Grade Bauxite: Assessing Quality Gains and ESG Impacts	Mineração Rio do Norte, Brazil
Michael Zieba	Delivering Value Through Active Geometallurgy	Rio Tinto Aluminium, Australia
Sharon Eileen Smith	Novel Analysis of Deported Bayer Organics from Multi-pass Cyclic Digestions	1: Rio Tinto Aluminium, Australia; 2: University of Sydney, Australia

Presenter	Presentation Title	Organization(s)
Srikanta Hota	Deck Charging Based Blast Optimization with Recycled Plastic Water Bottles for Sustainable Resource Extraction	Utkal Alumina International, India
Veronika Rybakova	Study of Aluminogothite and Boehmite Composition and Morphology in Jamaican and Guinean Bauxites by XRD Method	RUSAL Engineering & Technology Center, Russian Federation
ALUMINA		
Alpha Barry	Evaluation of Syensqo's Mud Rheology Modifier in Plant Trials at UC Rusal Ewarton Works, Jamaica	1: Syensqo, Canada; 2: UC Rusal Ewarton Works, Jamaica
Arijit Jatkar	Refinery Decarbonization and Cost Reduction Using Electric Thermal Energy Storage: Feasibility, FEED and Deployment	1: Rondo Energy, United States of America; 2: Hatch, Canada
Ashish Rathore	Mitigation of Sodalite Scale Formation in Bayer Process Heat Exchangers Using a Novel Scale Inhibitor	Kimberlite Chemicals India, India
Beatriz Pantoja	Integrating the Cost of Risk and Critical Control Management - A Case Study in an Alumina Refinery	Hydro Alunorte, Brazil
Benadict Rakesh	Synthesis of Zeolite as a Desilication Product from High Silica Bauxite Leach Liquor	1: CSIR-Institute of Minerals and Materials Technology, India; 2: NALCO Research & Technology Centre, India; 3: NALCO Mines and Refinery, India
Benyan Pei	Dilemma in Alumina Refinery - Design and Operate Bayer Plant Efficiently	Worley, Australia
Bharathesh Kumar	Improved Vanadium Sludge Recovery from Bayer Liquor	1: Aditya Birla Science and Technology Company, India; 2: Hindalco Industries, India
Bijoy Kumar Satpathy	Micro Capacity Alumina Refinery: An Innovative and Viable Technology	1: ICSoba, India; 2: Archimedes Engineers, India
Bon Nguyen	Advantages SWIRLFLOW® provides over traditional agitators in tanks other than alumina precipitators	1: CSIRO, Australia; 2: Queensland Alumina, Australia; 3: SAMI, China
Chandrakala Kari	Pilot to Plant: Scale-up of Flash Calcination Process – A Strategic Engineering Approach	1: Aditya Birla Science and Technology Company, India; 2: Hindalco Industries Ltd., India
Chandrakala Kari	Microwave Assisted Calcination for Sustainable Production of Alumina	1: Aditya Birla Science and Technology Company, India; 2: Pradeep Metals, India
Daniel Jin Tung Ang	Preliminary Assessment of Burner Aerodynamic Similarity Parameters for Renewable Fuel Retrofits in Alumina Calciners	Adelaide University, Australia
Debashis Tripathy	Advanced Precipitation and Classification Control Strategy to Meet Customer Granulometry and Soda Specifications	Hindalco Industries, India
Efthymios Balomenos	Gallium Extraction from the Bayer Liquor: Technological Review	National Technical University of Athens, Greece
Enio Silva	Mineralogical Characterization of Heat Exchanger Fouling for Maintenance Optimization in the Bayer Process	Hydro Alunorte, Brazil

Presenter	Presentation Title	Organization(s)
Enio Silva	Simulation-Based Control of Water Balance and Residue Washing under Declining Bauxite Quality	Hydro Alunorte, Brazil;
Evilacio Luz Teixeira	Replacement of Heavy Fuel Oil with Natural Gas in Hydro Alunorte's operations.	Hydro Alunorte, Brazil
Giselle Magalhães	Enhancing Industrial Effluent Treatment Resilience under Extreme Rainfall Events at Hydro Bauxite and Alumina	Hydro Alunorte, Brazil
Giselle Magalhães	Technical and Statistical Evaluation of Açaí Seed Biomass Co-Combustion in Alstom CFB Boilers at Hydro Bauxite & Alumina	1: Hydro Alunorte, Brazil; 2: ERMontoro Consulting and Training, Brazil
Giselle Magalhães	Development of an Integrated Tool for Estimation and Optimization of Natural Gas Consumption	1: Hydro Alunorte, Brazil; 2: Legasys Industrial Solution, Indaiatuba, Brazil
HongJun Dong	Process Analysis and Optimization of High-temperature Treatment of Guinean Gibbsite Bauxite	Aluminum Corporation of China, China
Indu Bajpai	Tailored Surface Engineering of Alumina: Enabling Next-Generation Functional Materials through Industrial Applications	Hindalco Industries, India
Jaise Carvallo	Strengthening Sustainability Governance at Alunorte through ASI Standards and Audit Data Integration	Hydro Bauxite and Alumina, Brazil
Jaise Keisy Silva Carvallo	Implementing a Governance Model for Kaizen Management in an Alumina Refinery	Hydro Alunorte, Brazil
Jason Clohessy	Bayer Saltcake Destruction by Wet Air Oxidation	Aughinish Alumina, Ireland
Jim Cambon	Sustainable SGA and HPA from Greenland Anorthosite	Anortech, Canada
João Victor da Silva	Drone Utilisation to Improve Safety, Asset Integrity and Operational Efficiency at Hydro Alunorte Refinery	Hydro Bauxite & Alumina, Brazil
Juhi Bhure	Engineering Hydrate-Filler Composites for Industrial Application: A Structure–Property Correlation Approach	Hindalco Industries;
Keshav Karn	AI Enhanced: Machine learning in production for precipitation productivity with strong decision support	Hindalco Industries Ltd Renukoot, India;
Liviu Mantescu	Improved Alumina Yield and Impurity Management Through Continuous Online Chemistry Measurement in Bayer Liquor	1: Watergenics, United States of America; 2: Watergenics, Germany
Luc Parent	Anti-Scaling Performance of an Advanced Filter Fabric for Bayer Process Security Filtration in Diastar	1: Sefar, Canada; 2: Century Aluminum Jamalco, Jamaica
Madhusmita Ray	Dynamic Modelling of Multistage-MVR for Alumina Refining	1: Indian Institute of Science, India; 2: Adelaide University, Australia; 3: Triveni Engineering & Industries, India
Manish Kumar Kar	Halman: Alumina Recovery from Calcium Aluminate Slag Through Aluminothermic Reduction of Pre-Reduced Mn Ore	Department of Materials Science and Engineering, NTNU, Norway
Maria Bagani	Mechanochemical Activation of Kaolin as an Alternative Feedstock for Sustainable Alumina Production	National Technical University of Athens, Greece

Presenter	Presentation Title	Organization(s)
Matthias Hatzenbuehler	Revamping - Modernizing Aging Filters for Peak Performance	BOKELA, Germany
Michael Ren	Current Status and Comparative Analysis of Evaporator Technology Development in the Global Alumina Industry	1: Juyeh Process Systems, China; 2: MMMF Technical Services, Germany
Nazym Akhmediyeva	Alternative Alumina-Bearing Raw Materials in Kazakhstan	1: Institute of Metallurgy and Ore Beneficiation, Kazakhstan; 2: Atlant Minerals LLP, Kazakhstan
Pooja Kumarnaik	High Quality TCA Formation: A Key Driver for Refinery Optimization in the Bayer Process	Hindalco Industries, India
Praveen Vishwakarma	Optimization of TCA Preparation for Improved Security Filter Performance in an Alumina Refinery	Hindalco Industries, India
Raghad Albalawi	Span Analysis for Early Detection of Size Distribution Instability in Alumina Hydrate Precipitation	Ma'aden Aluminum Company, Saudi Arabia
Raimunda Lina	Adapting Bayer Process Liquor Clarification to Declining Bauxite Quality through Flocculant Innovation	1: Hydro Bauxite & Alumina, Brazil; 2: SNF Group, France
Raj Kurup	Development of an Anaerobic Process for Sodium Oxalate Treatment in Alumina Refineries	Environmental Engineers International, Australia
Rajanikant Jadhav	Impact of Lime Addition on THA Extraction Under Low Temperature Digestion Conditions	Hindalco Industries, India
Rajesh Kumar Khuntia	Integrated Process Condensate Utilization to Conserve Water and Energy: the Condensate Polishing Unit	Hindalco Industries, India
Renata Ikeda	AA - Supply Chain Efficiency at Hydro Alunorte's Port Operations	Hydro Alunorte, Brazil
René Rödenbeck	Cutting Energy Consumption in Bayer Process Agitation – Without Compromising Suspension and Natural Overflow	1: STC-Engineering India, India; 2: STC-Engineering, Germany
Rupambika Mohanty	Low-cost Activated Alumina Production from NALCO Alumina Hydrates for De-fluorination of Water and Wastewater	1: National Aluminium Company (NALCO), India; 2: LN INDTECH Services, India
Samuel Senanu	Recovery and Conversion of Alumina for a Closed Material Cycle in the REVEAL Project	SINTEF, Norway
Santunu Pathy	Improving Recovery and Thermal Efficiency Through Optimized Bauxite Digestion - A Step Towards Sustainability	Hindalco Industries, India
Sarah Foley	Development of an Integrated Process Control Scheme to Optimise Mud Circuit Operation	Aughinish Alumina, Ireland
Sharmila Satyanarayanan	Synthesis of Hydrogarnet from High Silica Indian Bauxite and Spent Liquor	1: CSIR-Institute of Mineral and Materials Technology, India; 2: Nalco Research & Technology Centre (NRTC), NALCO, India; 3: NALCO Mines and Refinery, India
Shivakumar DC	Application of High Efficient Antifoaming Agent in Alumina Industries	Kimberlite Chemicals India, India;
Shounak Banerjee	Improved Foam Control Efficiency in Alumina Refinery Through Nalco FoamGuard™ Technology	1: Nalco Water, India; 2: Nalco Water, Australia

Presenter	Presentation Title	Organization(s)
Shuyao Wei	Research on the Extraction of Aluminum Oxide from Bauxite With High Silicon And Iron by Roasting Process	Zhengzhou Nonferrous Metals Research Institute Ltd Company of CHINALCO, China, People's Republic of
Siyun Ning	Heat Recovery from the Bayer Circuit for Steam Generation Using Heat Pumps	1: Adelaide University, Australia; 2: Heavy Industry Low-carbon Transition Cooperative Research Centre, Adelaide, Australia
Sreeraj Balachandran	Decarbonising Hard to Abate Alumina Refining in Gladstone: Portfolio Progress, Prioritisation and Delivery Constraints	Rio Tinto Aluminium, Australia
Srinath Govindarajan	Smelter Grade Alumina Production from a Saskatchewan-Based Black Shale	1: Hatch, Canada; 2: Hatch, Australia
Stephan Beaulieu	High Pressure Electric Boiler at Aughinish Alumina using Renewable Energy	Aughinish Alumina, Ireland
Suchita Rai	Investigation of Desilication and Digestion Kinetics in the Bayer Process	1: Jawaharlal Nehru Aluminium Research Development and Design Centre, India; 2: National Aluminium Company (NALCO), India
Swapnil Ghatage	Optimization of Precipitation Conditions for Improving Aluminium Trihydrate Strength and Productivity	1: Aditya Birla Science & Technology Company, India; 2: Utkal Alumina International, India
Taynara Valentim	Hydrate Quality Control in High-Yield Alumina Precipitation through Seed Ratio Optimization	Hydro Alunorte, Brazil
Ying Qiu	Research on Thermal Imaging Diagnosis Technology for Scaling in Heat Exchangers	Shanghai Heat Transfer Equipment, China
Zhiguo Li	Study and Application of Silicon Impurities Control in Bayer Seed Precipitation	Shenyang Aluminum and Magnesium Engineering and Research Institute (SAMI), Shenyang, China;
Yingying Zhao	Research Progress on the Preparation of High-Purity Alumina	Zhengzhou Non-ferrous Metals Research Institute of CHALCO, Zhengzhou, China
BAUXITE RESIDUE		
Carlos Silva de Oliveira	Optimization of the Calibration Curve for Analysis of Bayer Process Residues by WDXRF	Norsk Hydro Alunorte, Brazil
Chakravarthy Damuluri	A Method and System for Extracting Iron Values from Bauxite Residue	Eesavyasa Technologies, India
Chinmaya Kumar Sarangi	Strategic Importance of Iron Recovery Technology in Bauxite Residue Valorization	1: CSIR-Institute of Minerals and Materials Technology (CSIR-IMMT), India; 2: NALCO Research and Technology Centre, India
Danyang Ma	Research Progress on Comprehensive Utilization of Red Mud	China Aluminum Zhengzhou Nonferrous Metals Research Institute Co., Ltd., Zhengzhou, China
Erica Lima	Optimization of Bauxite Residue Filtration in a Press Filter Using Advanced Dynamic Control	1: Hydro Alunorte, Brazil; 2: Metso, Brazil
Kamran Ilahi	Unified Framework for CO₂ Mineralization and Geopolymer Valorization of Semi-Dry Red Mud for Carbon-Negative Mortars	IIT Bombay, India

Presenter	Presentation Title	Organization(s)
Nazym Akhmediyeva	Thermochemical Activation of a Nepheline Ore–Red Mud Mixture for Alumina Recovery	1: Institute of Metallurgy and Ore Beneficiation, Kazakhstan; 2: D.Serikbaev East Kazakhstan Technical University; Kazakhstan
Richard Hanson	Mineralogical Controls on Scandium Recovery from Jamaican BR and Implications for Carbonate Leaching	The Jamaica Bauxite Institute, Jamaica
Siming Lu	Research on the Comprehensive Utilization Technology of Three Rare Elements in the Red Mud	Zhengzhou Non-ferrous Metals Research Institute of CHALCO, China
Subash Chandra Mallick'	Electrochemical Assisted De-Ironing of Bauxite Residue as a Novel Approach for its Bulk Utilization	LN INDTECH Services, India
Vania Alves Donato	Structural Optimization of Filter Press Membrane Plates Using Fatigue-Based Finite Element Modelling	Hydro Bauxite & Alumina, Brazil
Vladimir Damjanovic	Advances in the Understanding of Titanium Recovery from Bauxite Residues	1: RWTH Aachen University, Germany; 2: Nova Alumina doo Zvornik, Bosnia and Herzegovina; 3: University of East Sarajevo, Bosnia and Herzegovina
Xiaoge Wang	A Systematic Review on the Recovery of Associated Metals from Bauxite and Bayer Process Residues	Zhengzhou Non-ferrous Metals Research Institute of Chalco, China.
ELECTRODES		
Alireza Sadeghi-Chahardeh	Modeling of Volatile Transport in Anode Baking Furnaces : An Approach to Explain Anode Sticking Phenomenon	Aluminum Research Centre–REGAL, Mining, Material, and Metallurgy Engineering Department, Université Laval, Canada
Alok Nigam	Green Anode Plant Throughput and Availability Improvement	Vedanta Aluminium, India
Amir Kafaei	Visualizing Anode Densification via Transparent Vibro-Compactor	1: Department of Chemical Engineering, Université Laval, Canada; 2: Aluminium Research Center (REGAL), Canada; 3: Department of Mining, Metallurgical, and Materials Engineering, Université Laval, Canada.
Amit Agashe	AI/ML-Enabled Optimization of Rotary Kiln Coke Calcination for Enhanced Real Density Control	1: Aluminium Bahrain, Bahrain; 2: Tridiagonal.ai, India
Anamit Gupta	Improvement in Anode Quality through Collaboration & In-house Process Optimization	Hindalco Industries, India
Armin Beitollahi	Capillary-Driven Flow Dynamics in Sequential Mixing for Anode Production	1: Department of Chemical Engineering, Aluminium Research Centre-REGAL, Université Laval, Canada.; 2: Department of Mining, Metallurgical and Materials Engineering, Aluminium Research Centre-REGAL, Université Laval, Canada.
Aswini Mishra	Increasing Current Efficiency and Reducing DC Energy Consumption Through Carbon Plant Optimization and Digital Innovations	Hindalco Industries, Mahan Aluminium, India
Chandresh Vaghasia	Mitigation of Anode Spike Formation in Potlines Through Superior Baked Anode Quality	Vedanta Aluminium, India
Chao Liu	Experimental and Numerical Investigation of the Cooling Process for Green Anodes under Continuous Kneading	1: SAMI, China; 2: Northeastern University (NEU), China

Presenter	Presentation Title	Organization(s)
David Molenaar	Experimental Off-Line Testing of Full-Scale Novel and Traditional Cathode Assemblies	1: Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia; 2: Alumtech Consulting, Australia; 3: SEC CARBON, Japan
El Hani Bouhabila	PAH Capture Efficiency of a Fives Dry Scrubber Treating Fumes from Qatalum Anode Baking Furnaces	1: FIVES SOLIOS, France; 2: Qatalum, France
Elahe Khani	Sodium Sulfate Reactivity Test of Carbon Anodes Baked at Different Temperatures	Laval University, Canada.
Falk Morawietz	Improved Anode Baking with New Hybrid Burner and Insert Design	Innovatherm Prof. Dr. Leisenberg GmbH + Co. KG, Germany
Fatemeh Khademian	Characterizing Pitch Impregnation in Coarse Coke Particles for Carbon Anode Production	1: Department of Mining, Metallurgical and Materials Engineering, Aluminium Research Centre-REGAL, Université Laval, Canada.; 2: Department of Chemical Engineering, Aluminium Research Centre -REGAL, Université Laval, Canada.
Flavio Montoro	Critical Process Methodology Application in Green Anode Production for an Aluminium Smelter	Sohar Aluminium, Oman
Les Edwards	Strategies for Reducing the CO2 Footprint and Environmental Impact of CPC Production	1: Rain Carbon Inc., United States of America; 2: Rain CII Carbon (Vizag), India; 3: Rain Carbon Germany
Rajesh Garg	Baked Anode Quality Improvement through Optimization of Green Anode Production Process Parameters	Aluminium Bahrain - ALBA, Bahrain
Shashi Kant Tiwari	Improvement in Baked Anode Quality and Fuel Consumption	Hindalco Industries Ltd, India
Yasuhiro Koyama	Direct Connection Cathode Assemblies – A Modular Platform for Continuous Optimisation	1: SEC CARBON, Japan; 2: Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australia; 3: Alumtech Consulting, Australia
ALUMINIUM ELECTROLYSIS		
Alexander Suss	Waste-Free Recycling of Excess Smelter Bath to Obtain Fluorite Concentrate and Sodium Alkaline Solution	1: RUSAL Engineering & Technology Center, Russia; 2: RUSAL Bratsk, Russia
Ali Amiri-Gheisvandi	Bubbly Flow and Bubble-Induced Liquid Flow Under a Slotted Anode in an Air-Water Model of the Hall-Héroult Cell	1: Université Laval, Québec, Canada; 2: Alcoa, PA, USA; 3: Alcoa, Deschambault, Canada; 4: École de Technologies Supérieures, Canada; 5: Aluminum Research Center-Regal, Canada
Alok Singh	Operational Resilience of Aluminium Reduction Cells During Recurrent Amperage Reductions	Hindalco Industries, India
Anish Gupta	Digital Transformation in a 60 Years Old Industrial Plant—A Practical Approach	Aditya Birla Group, India

Presenter	Presentation Title	Organization(s)
Arne Petter Ratvik	Methods to Process Surplus Bath from Aluminium Production into Valuable Products	1: SINTEF, Norway; 2: Hydro, Norway; 3: Alcoa, Norway; 4: Fluorsid, Norway
Asbjørn Solheim	On the Electrochemical Basis for Alumina Concentration Control	SINTEF, Norway
Avinash Pandey	Design and Installation of the Forced Cooling Network at Vedanta	1: Vedanta Aluminium Ltd, India; 2: CAETE Engenharia Ltda, Brazil
Balaji Umapathi	Upcycling of Spent Pot Lining into High-Performance Air Cathode for Aluminium-Air Batteries	1: Academy of Scientific and Innovative Research, Ghaziabad, India; 2: CSIR-Institute of Minerals and Materials Technology, India
Basavaraj Hanji	Optimized Selection of Sidewall Lining Material to Improve Potlife	Emirates Global Aluminium (EGA), United Arab Emirates
Biswajit Tewari	Reliability Improvement of Compressor House Through Online Vibration Monitoring	Hindalco Hirakud, India
Dan Liu	Physical Properties of Wear-Resistant Insulation Materials for Cell Hoods	Zhengzhou Non-ferrous Metals Research Institute of CHALCO, China
Dupuis Marc	Thermo-Electro-Mechanical Analysis of a Full Anode Assembly	1: Shenyang Aluminum & Magnesium Engineering & Research Institute, Shenyang, China; 2: School of Metallurgy - Central South University, Changsha, China; 3: Consultant GeniSim Inc., Jonquiere, Québec, Canada
Egil Skybakmoen	Typical Failures of Si₃N₄ Bonded SiC Sidelining Materials Used in Aluminium Electrolysis Cells	SINTEF Industry, Norway
Folco Giorgetti	Estimation of Fluid Velocity Field Parameters in Aluminum Electrolysis Cells	1: Università Degli Studi di Perugia, Italy; 2: Université Grenoble Alpes, CNRS, Grenoble INP, GIPSA-Lab, France; 3: Rio Tinto, Laboratoire de Recherche de Fabrications, France
Frank Appel	Development of a Fully Automated Mobile Gas-Fired Start-up System for Decommissioned Electrolysis Cells	Innovatherm Prof. Dr. Leisenberg GmbH + Co. KG, Germany
Ganeshram S	Rectifier Technologies for Aluminium Electrolysis—Evolution, Technical Comparison and Future Outlook	1: ABB Switzerland Ltd, Switzerland; 2: ABB India, India
Girish Nainwal	From Reactive to Predictive—Data-Driven Reliability Enhancement of Rectifier	Aditya Birla Group, India
Hassan Almohri	Alba Reduction Line 4 Outage & Safe Recovery	ALBA, Bahrain
Iliya Puzanov	Applying Harrington's Desirability Function to the Smart Scheduling of Cell Cut-Outs for Relining	RUSAL, Russian Federation
Jayson Tessier	Development and Testing of Individual Anode Current Sensors for Hall-Héroult Process	1: Alcoa, Canada; 2: Alcoa, Spain
Jeneson Medeiros de Aquino Sales	Reconciliation of Anodic Electrical Currents for More Reliable Detection of Local Abnormal Events in Hall-Héroult Cells	1: Aluminium Research Centre (REGAL), LOOP, Département de génie chimique, Université Laval, Canada;

Presenter	Presentation Title	Organization(s)
		2: Alcoa Corporation, Operational Excellence – Smelting Technology, Deschambault, Canada
Jesper Grjotheim Dahl	Broken Bag Detection for Large Gas Treatment Centers	1: REEL Norway AS, Norway; 2: Aditya Aluminium Private, Sambalpur, Orissa, India
Jinlong Hou	Development and Industrial Application of SY600 Aluminum Reduction Cell Technology	1: Shenyang Aluminium and Magnesium Engineering and Research Institute; 2: School of Metallurgy - Central South University
Kumud Yadav	Using Life Cycle Assessment to Identify Environment Hotspots and Decarbonization Vision for the Aluminum Industry	Hindalco Industries Ltd., India
Lego Sitinjak	Optimizing Anode Effect Termination to Reduce PFC Emissions in INALUM Potline 2	PT Indonesia Asahan Aluminium (INALUM), Indonesia
Louis Bugnion	Anti-Disturbance Busbar Technology and its Applications in Cells	KAN-NAK, Switzerland
Luane Torres	Validation of an Increased-Capacity Bath Sampler	ALBRAS, Brazil
Mahsa Shirazi	Impact of Power Modulation on Thermal Behavior and Electrolyte Composition in Aluminum Smelters	1: Université de sherbrooke, Canada; 2: Université du Québec à Chicoutimi, Canada; 3: Rio Tinto Alcan, Canada
Maitha Faraj	DX+ Ultra Technology at 490 kA in EGA Eagle Pilot Section Innovation Hub	EGA, United Arab Emirates
Marc Dupuis	Improving Stability of the First or the Last Cell in a Potroom	1: GeniSim Inc., Canada; 2: University of Greenwich, UK
Piyush Mishra	Pot Life and Energy Efficiency Improvements in Hirakud Low Amperage Pots	Aditya Birla Group, India
Pradeep Pampalath	Repurposing Graphite from Spent Carbon Cathode Blocks in Lithium-Ion Batteries.	1: Academy of Scientific and Innovative Research, Ghaziabad, India; 2: CSIR-Institute of Minerals and Materials Technology, India; 3: Vedanta Aluminium Ltd, India
Pratap Sahu	Testing Ready-to-Use Cathode (RuC®) Technology in a 235 kA Pot in Hirakud Smelter	1: Hindalco Industries Ltd., Hirakud Smelter, India; 2: ABSTC, India
Ravi Selvaraj	A Redox Reaction Integrated KPI for Monitoring Carbon Consumption and Enhancing Potline Current Efficiency	Sohar Aluminium, Oman
S Sasi Kumar	Commissioning of the Pilot Booster Section at Mahan Aluminium Smelter	1: Hindalco Industries Ltd, Mahan Aluminium, India; 2: Hindalco Industries Ltd, Mumbai, India; 3: Aditya Birla Science and Technology Company (P) Ltd, India
Sagar Soni	Electrocoagulation-Enabled Treatment of High Fluoride Reverse Osmosis Reject for Water and Resource Circularity	Hindalco Industries Ltd - Aditya Birla Group, India
Salim AL Sudairi	Reducing Anode Effects as a Pathway to Lower PFC Emissions - A Reliability-Driven Approach Aligned with ESG Goals	Sohar Aluminium, Oman
Suellen Miranda	Operational Stability of an Aluminum Potline During Controlled Amperage Reduction at ALBRAS	ALBRAS, Brazil

Presenter	Presentation Title	Organization(s)
Sumit Deepak Gujar	A Systematic Approach for Bipolar Cell Design Evaluation for Molten Salt Electrolysis	1: Gharda Scientific Research Foundation, India; 2: M/S-FluidDimension, India
Thor Anders Aarhaug	Monitoring of Heavy Metal Potroom Emissions by Proxy	SINTEF, Norway
Vanderlei Gusberti	CFD Modeling of the Vedanta Forced Cooling Network	1: CAETE Engenharia Ltda, Brazil; 2: Vedanta Ltd, India
Vanderlei Gusberti	A Thermal-Sodium Diffusion and Structural Model for Electrolysis Cell Start-Up and Early Life	1: CAETE Engenharia Ltda, Brazil; 2: Aluar Aluminio Argentino, Argentina
Victor Buzunov	Increasing the Service Life of RUSAL's Reduction Cells	1: RUSAL Engineering & Technology Center, Russian Federation; 2: UC RUSAL, Moscow, Russia
Vinay kumar Tiwari	Development of an Innovative Hydraulic System for Pot Shell Deflection Recovery in Aluminium Smelters	Hindalco Industries, India
Vincent Maigron	Reducing Anode Effects through Preventive Anode Effect Detection and Treatment	Rio Tinto, France
Vinod Kumar	Integrated Resource Recovery and Waste-Management Strategy for Skimmed Carbon Dust in Aluminium Smelting	Hindalco Industries, India
Yan Zhou	Industrial Application of Horizontal Flue Gas Desulphurization for Aluminum Electrolysis	Alubase Industries, Australia
Yingwu Li	Application of AI Technology in Anode Yoke Maintenance	Zhengzhou Jingwei Technology Industry, China.
Zhibin Zhao	Transient Simulation of Thermal, Electrical and Flow Behavior and Ledge Evolution During Anode Changing	SAMI, China
CASTHOUSE		
Alberto Ghisetti	Equipment and Technology Improvement for Aluminium Electrical Conductor Grade, Electrical and Mechanical Alloys Production	Continuus-Properzi, Italy
Anthony Baranov	Adjustable Tooling for Aluminum Slabs: Balance Between Production Flexibility and Geometric Accuracy	RUSAL Engineering & Technology Center, Russian Federation
Ashutosh Mantry	Transforming Operational Technology Visibility with Real-Time Alerts on Microsoft Teams	Hindalco Industries, India
Mainak Sen	Multiscale ICME Design of Aluminium Alloy with Electrical Conductivity and Thermal Stability for EV Power System	1: Vedanta Aluminium, India; 2: CSIR-NML, India
Nilay Shah	Enhancement of Operational Performance in Tibor Rod Feeder System at EGA Jebel Ali Cast House	EGA, United Arab Emirates
Pierre Trouiller	InNexus™, a New Approach That Puts Domain Experts Back at the Heart of Industrial Software Development	EPIQ Digital, Canada
Samuel Senanu	Remelting and recycling of bottom cakes	1: SINTEF, Norway; 2: Alcoa, Norway;

Presenter	Presentation Title	Organization(s)
		3: Speira, Norway; 4: Hydro Aluminium, Norway
Saurabh Kawale	Operator Assistance System for Improving Billet Recovery in Aluminium DC Casting	1: Tridiagonal.AI, India; 2: Aluminium Bahrain B.S.C - ALBA, Bahrain
Sumant Ray	Product Development “HTLS Grade Wire Rod (Zr based alloy)” at Industrial Scale for power transmission and establishment of process with a minimum loss of productivity	Hindalco Industries, Unit - Mahan Aluminium, India
Yanick Boulianne	Metallurgical Evaluation of the AluCLEAR™ Refining Rod as an Alternative to Gaseous Chlorine in Aluminum Degassers	1: STAS, Canada 2: Hulamin Rolled Products, India 3: Spectrum Technical, India
Yosua Wijaya	Flow Modification in Water Cooling Pan to Prevent Water Ingress into Ingot Moulds	Indonesia Asahan Aluminium, Indonesia